DISCOVER A NEW LEVEL OF EFFICIENCY

HOME HEATING PRODUCT RANGE OIL / RENEWABLES / CYLINDERS

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Warmflow Engineering Company Limited is a family owned company where reputation and integrity are paramount. We maintain a policy of continuous product improvement and reserve the right to change specification without notice. The statutory rights of the consumer are not affected. This brochure should only be used for sales purposes. Please consult the installation instructions, available on request, before installing or specifying a Warmflow product.

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INNOVATIVE | RELIABLE | EFFICIENT

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www.warmflow.co.uk

OVER 50 YEARS OF HEATING

For over 50 years Warmflow has created innovative, award-winning heating products for homes in the UK and Ireland.

All Warmflow products are made at our state-of-the-art manufacturing facility in Lisburn, Northern Ireland. Our extensive range of home heating products offers value for money, fuel efficiency, ease of installation and all supported by top-class customer care.

Our comprehensive product portfolio, which includes the UK and Ireland's only AA rated combi boiler, offers a choice of highly efficient liquid fuelled boilers as well as range of intelligent renewable products and a selection of cylinders, which will satisfy the needs of the most demanding households.

At Warmflow we pride ourselves on leading the way in innovation, working with customers to ensure that:

we manufacture products that are easy to install and service
our products are made using only the highest quality materials
our products deliver the highest possible efficiency levels and cost



savings.

Our products have been independently tested and accredited. Our range of appliances exceed the minimum ErP efficiency requirements and comply with Document L1A, L1B (England & Wales), The Building Standards (Scotland) Regulations Section 6, Approved Document Part F (Northern Ireland) and with the HARP efficiency requirements for Part L (Republic of Ireland).



INNOVATIVE | RELIABLE | EFFICIENT





Agentis OIL BOILERS

Our outstanding selection of high efficiency, internal and external oil-fired boilers including the UK & Ireland's only AA-rated oil boiler - will keep your customers and their loved ones warm and cosy during the chilly months ahead.





I have been fitting warmflow boilers for several years and can not fault them one bit. Competitive price and a high quality build. The warmflow team could not be more helpful unlike competitors. Nice as an installer to have regular contact and professional development with a team determined to make the installation of an oil fired boiler as easy and painless for both installer and consumer. Highly recommended.







INTERNAL OIL BOILERS

Designed to fit specifically into kitchen and utility rooms, its stylish white casing houses a highly efficient patented heat exchanger and the latest Riello low NOx technology.



Save up to 5 litres of fuel per week compared to other brands with the UK & Ireland's only AA-rated oil boiler*



Unique "Easy-Fit" balanced flue system - 1 flue fits all boilers



Patented high-efficiency heat exchanger

New slimline design integrates seamlessly into any kitchen or utility room



Latest Riello low NOx technology exceeding legislative requirements



Range of outputs from 15 – 44kW





INTERNAL HEAT ONLY

121 / 126 / 133 / 144

- High-efficiency condensing Internal range
- Designed to fit into any kitchen or utility room
- The latest Riello low NOx technology



INTERNAL SYSTEM

121 S / 126 S / 133 S

TEEEEL

- Riello low NOx technology
- Factory-fitted Grundfos UPM3 FLEX AS circulating pump
- 12l Expansion vessel
- Factory-fitted automatic air vent
- · Factory-fitted 3 bar safety valve

Trustpilot \star \star \star \star

WARMFLOW

PROFESSIONAL

OVER

£/€**250**

See page 10 for more details.

FACTORY-FITTED EXTRAS

WORTH OF

All Warmflow Professional models come with:





INTERNAL PUMPED

I21 P / I26 P / I33 P / I44 P

- Riello low NOx technology
- Factory-fitted Grundfos UPM3 FLEX AS circulating pump
- Factory-fitted automatic air vent
- Factory-fitted 3 bar safety valve



INTERNAL COMBI

121 C / 126 C / 133 C

- AA Rating on M & XL load profile
- Riello low NOx technology Factory fitted Grundfos UPM3 FLEX AS circulating pump
- 24l Factory-fitted, hinged, expansion vessel
- Low component count
- DHW Expansion vessel
- DCW Inlet shut-off valve
- Factory-fitted DCW pressure reducing valve
- Push-in O-ring fittings
- Slimline design
- Integrated 7-day programmer
- Patented design



EXTERNAL OIL BOILERS

Designed for outdoor use with its IP45rated, no maintenance, weatherproof casing, the Warmflow Agentis also features a highly efficient, patented heat exchanger and the latest Riello low NOx technology.



Patented high-efficiency heat exchanger

Save up to 5 litres of fuel per week

Ireland's only AA-rated oil boiler*

compared to other brands with the UK &



Latest Riello low NOx technology exceeding legislative requirements

Multi-directional flue options

included as standard

Range of outputs from 15 – 44kW



EXTERNAL SYSTEM

E21 S / E26 S / E33 S

- Riello low NOx technology
- Factory-fitted Grundfos UPM3 FLEX AS circulating pump
- 12l Expansion vessel
- · Factory-fitted automatic air vent
- Factory-fitted 3-bar safety valve

WARMFLOW PROFESSIONAL All Warmflow Professional models come with:



OVER



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EXTERNAL PUMPED

E21 P / E26 P / E33 P / E44 P

- Riello low NOx technology
- Factory-fitted Grundfos UPM3 FLEX AS circulating pump
- Factory-fitted automatic air vent
- Factory-fitted 3-bar safety valve



EXTERNAL COMBI

E21 C / E26 C / E33 C

- AA Rating on M & XL load profile
- Riello low NOx technology
- Factory fitted Grundfos UPM3 FLEX AS circulating pump
- 24l Factory-fitted, hinged, expansion vessel
- Low component count
- DHW expansion vessel
- DCW inlet shut-off valve
- Factory-fitted DCW pressure reducing valve
- Push-in O-ring fittings
- Slimline design
- Integrated 7-day programmer
- Patented design



BOILERHOUSE OIL BOILERS

The Boilerhouse range has been specifically designed for boiler house and garage applications and is suitable for indoor installation.

Its blue casing houses a highly efficient heat exchanger that can be easily accessed for servicing. The latest in Riello low NOx burner technology makes the Boilerhouse range quiet in operation and the perfect choice in oil-fired boilers.

All Boilerhouse models are fully factory wired with burner and thermostat and are supplied with a factory-fitted condensate trap as standard. The appliance has flow and return connections off the top for ease of plumbing.



GOOD TO KNOW



The Boilerhouse Boilers are supplied with a pre-wired, factory-fitted burner and thermostat. Only one IE320 mains socket (supplied) needs to be wired on site.



AN ENVIRONMENTAL INVESTMENT Designed to be environmentally friendly, Warmflow boilers are highly efficient in operation and are ErP A-rated.



THE NEXT GENERATION **OF OIL BOILERS**





★ Trustpilot

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Teddinaton fire valve with 9m capillary[†]

Oil line installation kit with a Crossland oil filter ADEY Magnaclean pro 2 filter

m capillary as standard with an Internal boiler, 3m capillary as standard with an External boiler ble on pumped, sustem and combi professional models

WARMFLOW gentis **High Efficiency Oil Boiler** PROFESSIONAL

HVO

FUTURI



Pre Wired Grundfos UPM3 Flex AS Circulating Pump*

Includes 2 Bottles of Inhibitor

MODEL SPECIFICATIONS

	INTERNAL												
Model	Output (kW)	Flue Options	C/F size (mm)	F	ErP Rating	J	Height (mm)	Depth (mm)	Width (mm)	Conne	ections	Service Access	DHW Flow (l/min)
				CH	DH	W				Flow	Return		
					Μ	XL							
HEAT ON	ILY												
121	15-21	C/F, low/ high/ vertical B/F	100	А	n/a	n/a	865	602	413	28mm	1" BSP	front	n/a
126	21-27	C/F, low/ high/ vertical B/F	100	А	n/a	n/a	865	602	413	28mm	1" BSP	front	n/a
133	27-33	C/F, low/ high/ vertical B/F	100	Α	n/a	n/a	865	602	413	28mm	1" BSP	front	n/a
144	33-44	C/F, low/ high/ vertical B/F	100	А	n/a	n/a	1155	872	595	1¼" BSP	1¼" BSP	front	n/a

PRE PUMF	ED												
I21P	15-21	C/F, low/ high/ vertical B/F	100	А	n/a	n/a	865	602	413	28mm	22mm	front	n/a
126P	21-27	C/F, low/ high/ vertical B/F	100	А	n/a	n/a	865	602	413	28mm	22mm	front	n/a
133P	27-33	C/F, low/ high/ vertical B/F	100	А	n/a	n/a	865	602	413	28mm	28mm	front	n/a
144P	33-44	C/F, low/ high/ vertical B/F	100	Α	n/a	n/a	1155	872	595	28mm	1¼" BSP	front	n/a

SYSTEM													
1215	15-21	C/F, low/ high/ vertical B/F	100	А	n/a	n/a	865	602	413	28mm	22mm	front	n/a
126S	21-27	C/F, low/ high/ vertical B/F	100	А	n/a	n/a	865	602	413	28mm	22mm	front	n/a
I33S	27-33	C/F, low/ high/ vertical B/F	100	А	n/a	n/a	865	602	413	28mm	28mm	front	n/a

COMBI													
121C	15-21	C/F, low/ high/ vertical B/F	100	А	А	А	865	602	515	22mm	22mm	front/top	18
126C	21-27	C/F, low/ high/ vertical B/F	100	А	А	Α	865	602	515	22mm	22mm	front/top	22*
133C	27-33	C/F, low/ high/ vertical B/F	100	А	А	А	865	602	515	22/28mm	22/28mm	front/top	24*

PROFESSIC	DNAL												
I21PPRO	15-21	C/F, low/ high/ vertical B/F	100	А	n/a	n/a	865	602	413	28mm	22mm	front	n/a
126PPRO	21-27	C/F, low/ high/ vertical B/F	100	А	n/a	n/a	865	602	413	28mm	22mm	front	n/a
I33PPRO	27-33	C/F, low/ high/ vertical B/F	100	А	n/a	n/a	865	602	413	28mm	28mm	front	n/a
I21SPRO	15-21	C/F, low/ high/ vertical B/F	100	А	n/a	n/a	865	602	413	28mm	22mm	front	n/a
I26SPRO	21-27	C/F, low/ high/ vertical B/F	100	А	n/a	n/a	865	602	413	28mm	22mm	front	n/a
133SPRO	27-33	C/F, low/ high/ vertical B/F	100	А	n/a	n/a	865	602	413	28mm	28mm	front	n/a
I21CPRO	15-21	C/F, low/ high/ vertical B/F	100	А	А	А	865	602	515	22mm	22mm	front/top	18
I26CPRO	21-27	C/F, low/ high/ vertical B/F	100	А	А	Α	865	602	515	22mm	22mm	front/top	22*
I33CPRO	27-33	C/F, low/ high/ vertical B/F	100	А	А	Α	865	602	515	22/28mm	22/28mm	front/top	24*

 $\ensuremath{^*\!Remove}\xspace$ flow restrictor for above 181/min. Output dependent on incoming pressure/volume.

All boilers are compatible with biofuel however they must be commissioned on site and the flexible fuel line(s), nozzle and fuel filter replaced. Please 11 contact Warmflow for further details.

Model	Output (kW)	Flue Options	C/F size (mm)	F	ErP Rating	J	Height (mm)	Depth (mm)	Width (mm)	Connections		Service Access	DH\ Flov (l/mi
				СН		IW XL				Flow	Return		
HEAT ON	ILY												
E21	15-21	L,R or rear. Optional Top	n/a	А	n/a	n/a	900	700	413	28mm	1" BSP	front	n/c
E26	21-27	L,R or rear. Optional Top	n/a	Α	n/a	n/a	900	700	413	28mm	1" BSP	front	n/c
E33	27-33	L,R or rear. Optional Top	n/a	А	n/a	n/a	900	700	413	28mm	1" BSP	front	n/c
E44	33-44	L,R or rear. Optional Top	n/a	А	n/a	n/a	1155	876	595	1¼" BSP	1¼" BSP	front	n/o
PRE PUMP	ED												
E21P	15-21	L,R or rear. Optional Top	n/a	А	n/a	n/a	900	700	413	28mm	22mm	front	n/o
E26P	21-27	L,R or rear. Optional Top	n/a	А	n/a	n/a	900	700	413	28mm	22mm	front	n/c
E33P	27-33	L,R or rear. Optional Top	n/a	А	n/a	n/a	900	700	413	28mm	28mm	front	n/o
E44P	33-44	L,R or rear. Optional Top	n/a	Α	n/a	n/a	1155	876	595	28mm	1¼" BSP	front	n/o
SYSTEM													
E21S	15-21	L,R or rear. Optional Top	n/a	А	n/a	n/a	900	700	413	28mm	22mm	front	n/e
E26S	21-27	L,R or rear. Optional Top	n/a	Α	n/a	n/a	900	700	413	28mm	22mm	front	n/e
E33S	27-33	L,R or rear. Optional Top	n/a	А	n/a	n/a	900	700	413	28mm	28mm	front	n/c
СОМВІ													
E21C	15-21	L,R or rear. Optional Top	n/a	А	А	А	900	700	550	22mm	22mm	front/top	18
E26C	21-27	L,R or rear. Optional Top	n/a	А	А	Α	900	700	550	22mm	22mm	front/top	22
E33C	27-33	L,R or rear. Optional Top	n/a	Α	Α	А	900	700	550	22/28mm	22/28mm	front/top	24
PROFESSIO	ONAL												
E21PPRO	15-21	L,R or rear. Optional Top	n/a	А	n/a	n/a	900	700	413	28mm	22mm	front	n/e
E26PPRO	21-27	L,R or rear. Optional Top	n/a	Α	n/a	n/a	900	700	413	28mm	22mm	front	n/o
E33PPRO	27-33	L,R or rear. Optional Top	n/a	А	n/a	n/a	900	700	413	28mm	28mm	front	n/o
E21SPRO	15-21	L,R or rear. Optional Top	n/a	А	n/a	n/a	900	700	413	28mm	22mm	front	n/o
E26SPRO	21-27	L,R or rear. Optional Top	n/a	А	n/a	n/a	900	700	413	28mm	22mm	front	n/o
E33SPRO	27-33	L,R or rear. Optional Top	n/a	Α	n/a	n/a	900	700	413	28mm	28mm	front	n/o
E21CPRO	15-21	L,R or rear. Optional Top	n/a	А	А	А	900	700	550	22mm	22mm	front/top	18
E26CPRO	21-27	L,R or rear. Optional Top	n/a	Α	Α	Α	900	700	550	22mm	22mm	front/top	22
E33CPRO	27-33	L,R or rear. Optional Top	n/a	A	A	A	900	700	550	22/28mm	22/28mm	front/top	24
		·			BC	DILER	R HOUSE						
B21	15-21	C/F, low/ high/ vertical B/F	100	А	n/a	n/a	697	600	395	1" BSP	1" BSP	front	n/a
	21-27	C/F, low/ high/ vertical B/F	100	А	n/a	n/a	697	600	395	1" BSP	1" BSP	front	n/a
B26		_											

*Remove flow restrictor for above 181/min. Output dependent on incoming pressure/volume. All boilers are compatible with biofuel however they must be commissioned on site and the flexible fuel line(s), nozzle and fuel filter replaced. Please contact Warmflow for further details.

WARMFLOW

FLUE & PLUME MANAGEMENT KITS

Warmflow's Easy-Fit, plastic flue systems have been specifically designed for use on high efficiency, condensing oil boilers.

With the Warmflow Agentis range, you don't need to carry different flue systems for different jobs - with us, one flue will fit all our boilers. Additional benefits include the locking clamp arrangement which offers superior rigidity and security compared with traditional push-fit flues. Since the flue system is plastic all extension and terminal sections can be easily cut to length as required.

All flue kits include:

- Boiler adapter and starter piece
- End terminal
- Flue fittings kit
- Thermal guard (FBF)
- 1000mm extension (HBF)
- 87° bend (HBF)



Horizontal Flue Kit (FBF)

Cut to suit (675 Max)









Piece

High Level Flue Kit (HBF)

In instances where discharging flue gasses at low level may cause a problem, such as in a small courtyard or narrow passageway, a Plume Management Kit may provide a useful addition to a standard low-level flue. The kit features extensions and bends in 80mm black UV-stabilised polypropylene and also includes adjustable mounting brackets. Plume Management Kits are suitable for all models up to 44kW (see notes).

KEY

- A Diverter elbow
- B 860mm extension
- C 87° bend
- D Terminal insert
- E Adjustable bracket
- F 45° bend

Note: FBF kit also required Utility (Internal) Plume Management Kit (U-Pmk)

B

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1750

The following components are available separately





Note: The Utility (Internal) Plume Management Kit (U-PMK) is designed to extend an FBF flue kit. Both an FBF and U-PMK are required to assemble the complete flue.

HE FLUE KIT ACCESSORIES





F10 - conventional flue adapter



Vertical Flue Kit (VBF)

13

F11 - pitched roof flashing

WARMFLOW



Kit (K-Pmk)



Adjustable bracket (3460)



Effective length = 0.5mF7 - 45° bend



F12 - flat roof flashing



Effective length = 1.0m F8 - 87° bend



F14 - terminal guard

FLEXI LINER KITS & ACCESSORIES

With Warmflow's flexible flue liners, connecting a condensing boiler to an existing chimney couldn't be easier. No separate combustion air supply is needed as our flue liners use the chimney for the supply of combustion air, providing a room-sealed installation.

With the Agentis range, you don't need to carry different flue systems for different jobs - with us, one flue will fit all our boilers.

Four kits are available in a choice of either 6 metre or 10 metre flexible sections, with either vertical or horizontal entry options. The connection between the boiler and chimney is made using Warmflow's plastic flue system, so both the flexible liner within the chimney and the rigid flue connecting the boiler can easily be cut to length as required.

Flexi Liner Kits are suitable for all indoor models up to 26kW. For outputs in excess of 26kW, please consult our Customer Care Centre.

All 4 kits include:

- boiler adapter
- vertical starter piece
- flue fittings kit
- flue thermostat
- chimney closure plate
- terminal section
- flexible liner
- liner spacers and couplings

Horizontal kits also include:

- 2 x 0.5 metre balanced flue extensions
- + $1 \times 87^\circ$ balanced flue bend
- $1 \times 87^{\circ}$ liner support elbow

Vertical kits also include:

• 1 x 0.5 metre balanced flue extension



Vertical Entry Kit VFL6 = 6m vertical entry kit VFL10 =10m vertical entry kit

Horizontal Entry Kit HFL6 = 6m horizontal entry kit HFL10 = 10m horizontal entry kit





INNOVATIVE | RELIABLE | EFFICIENT

WARMFLOW Neto Hot Water Cylinder

The ideal choice for mains pressure, hot water cylinders. A water heating masterpiece.

QUALITY DESIGN WITH BUILT-IN RELIABILITY

The cylinder range from Warmflow has been designed to satisfy the hot water needs of even the most demanding consumer. The innovative design of our range of WRAS approved, unvented cylinders ensures that you benefit from the large hot water volumes.

From the large heat exchangers to the high performance foam insulation, no effort has been spared in developing these market leading hot water cylinders.

Our unvented cylinders work at mains pressure, so they provide outstandinghot water flow rates, far exceeding those experienced with a combi boiler or traditional vented cylinder. As a result, baths fill quickly and showers are invigorating. In addition, due to the inlet control group we supply with a balanced cold water connection, all the hot and cold taps in the house operate at the same pressure and blending valves work at their best to ensure consistent, comfortable hot water temperatures. For ease of installation cylinder connections are made using compression fittings reducing installation time & cost.

WARMFLOW Ø) 0 COR E O F Cort COL -----COLL COL ALL OF CON O Sto We

TRIPLE COIL TR290V





HEAT PUMP HP200UV

Rather than using thin wall corrugated flexible tube for our heat exchanger coils, we use rigid smooth wall exchangers formed from high quality stainless steel pipe, as we believe this provides greater stability, quality and durability. Our coils are formed from long lengths of pipe, so they have large surface areas for heat transfer.

All our models are manufactured from high quality duplex stainless steel, a strong and lightweight material ideal for unvented cylinders. Our range is fully third-party tested, approved and certified. Employing patented design features, innovative manufacturing techniques and industry best practice, our cylinders have a 'crevice-free' construction which, combined with the use of Duplex stainless steel, ensures corrosion resistance and a long service life.

This, and the fact that we test every cylinder to in excess of the maximum pressure it will experience in operation, means we can confidently offer a 25 year guarantee. So peace of mind comes as standard.



SOLAR PV



Thinking about, or have Solar PV?

The immersions on all Nero Cylinders are compatible with 3rd party Solar PV immersion controllers.

AN ENVIRONMENTAL INVESTMENT

We use a thick layer of high quality polyurethane insulation, saving precious fuel and reducing carbon dioxide emissions.



Our insulation is also CFC/HCFC-free, has a zero Ozone Depletion Potential (ODP) and a Global Warming Potential of only 2. Due to the large surface areas of our heat exchangers it is also possible for a condensing boiler to work in condensing mode for longer, and cycle less frequently when heating the hot water, thereby helping to further reduce fuel use and emissions.



EASE OF INSTALLATION

Our cylinders are supplied with all the necessary parts for a quick, easy, professional installation. We supply only high-quality components from recognised, market-leading suppliers.

COMPONENTS SUPPLIED INCLUDE

- Inlet group complete with strainer, pressure-reducing valve, balanced cold connection (except vented)
- Incolog 3kW immersion heater(s)
- 2 Port zone valve (except Direct, Heat Pump & vented models)
- Expansion vessel complete with hanging bracket (except Vented models)

F	7	A
		(

Available in Indirect, Twin Coil, Twin Coil (Vented), Triple Coil (Vented), Direct and Heat Pump models

Volumes from 110 to 290 litres



3

316 stainless fittings and grey leathergrain casing

Duplex stainless steel construction

🕥 Hig

High performance rigid coils

INDIRECT CYLINDER (UNVENTED)

Available in six sizes from 110 to 290 litres to suit the vast majority of domestic installations, our Indirect models are the core of our cylinder range.

Thanks to their large surface area and high performance heat exchange coils, the Indirect models boast impressive heat-up times - the 170 litre model taking just 25 minutes to reach 60°C from cold.

Our Indirect models, like the rest of the unvented range, are designed to be fed directly from the mains water supply via the inlet group supplied, which is capable of receiving incoming water at pressures up to a maximum of 16 bar.



	INDIRE	CT CYLINDE	R			
	IN110UV	IN140UV	IN170UV	IN200UV	IN240UV	IN290UV
DIMENSIONS						
(A) Height (mm)	830	1005	1205	1380	1655	1940
(B) Secondary return connection (mm)	-	-	-	1080	1355	1640
(C) Primary coil upper connection (mm)	451	511	605	605	657	728
(D) Primary coil lower connection (mm)	168	228	228	228	279	351
(E) Cold Inlet Connection (mm)	168	228	228	228	228	228
OPERATING DATA						
Rated volume (litres)	107	135	165	194	233	281
Weight when full (kg)	140	180	210	240	290	350
Standing heat loss (kWh/24h)	1.43	1.41	1.68	1.78	2.08	2.15
PERFORMANCE						
Primary coil rating @ 15L/min (kW)	10.15	12.91	17.51	16.81	15.72	14.66
Heat up time (EN12897) (mins)	23	26	25	33	42	49
ERP RATING	С	С	С	С	С	С



In order to achieve the best performance from our unvented cylinders, the mains water supply must be capable of supplying a flow rate of at least 20 litres per minute with a dynamic pressure of at least 1.5 bar. Should the supply performance be less than this the hot water flow rates will be reduced, however a Warmflow unvented cylinder may still be installed and the benefits of a fast heat-up time and minimal heat losses can still be enjoyed.



TWIN COIL CYLINDER (UNVENTED)

Our Twin Coil unvented models have all the features and benefits of the Indirect models but come with an additional coil for use with a renewable heat source, or an additional boiler. The models feature large dedicated renewable volumes, making them suitable for use with solar thermal systems in line with the recommendations in the Domestic Building Services Compliance Guide.

The renewable coil (the lower of the two coils) has a large surface area to maximise the use of available low grade heat from a renewable resource. The immersion heater and cylinder thermostats for both coils are supplied. Twin Coil models (200 litres & above) feature a dedicated 22mm connection for use with a secondary return (pumped circulation).

TWIN COIL (UNVENTED)

DIMENSONS Image: Constraint of the system Image: Constand of the system	UV
(B) Secondary return connection (mm) - 1080 1355 1640 (C) Primary coil upper connection (mm) 883 988 1088 1231 (D) Primary coil lower connection (mm) 601 705 806 948 (E) Renewable coil upper connection (mm) 511 605 605 605 (F) Renewable coil lower 228 228 228 228 228	
connection (mm) - 1080 1355 1644 (C) Primary coil upper connection (mm) 883 988 1088 1231 (D) Primary coil lower connection (mm) 601 705 806 948 (E) Renewable coil upper connection (mm) 511 605 605 605 (F) Renewable coil lower 228 228 228 228 228	1
upper connection (mm) 883 988 1088 1231 (D) Primary coil lower connection (mm) 601 705 806 948 (E) Renewable coil upper connection (mm) 511 605 605 605 (F) Renewable coil lower 228 228 228 228 228	
Iower connection (mm)601705806948(E) Renewable coil upper connection (mm)511605605605(F) Renewable coil lower228228228228	
upper connection (mm) 511 605 605 605 (F) Renewable coil lower 228 228 228 228 228	
connection (mm)	
(G) Cold Inlet 228 228 228 228 228	
OPERATING DATA	
Cold water capacity 165 194 233 281 (litres)	
Weight when full (kg) 210 240 290 350	
Standing heat loss 1.66 1.97 2.12 2.26 (kWh/24h) 1.66 1.97 2.12 2.26	
Dedicated renewable volume (litres) 83 97 117 141	
PERFROMANCE	
Primary coil rating @ 14.27 14.35 14.28 14.64 15L/min (kW) 14.27	
Renewable coil rating @ 12.33 16.62 16.47 15.82 15L/min (kW) 12.33 16.62 16.47 15.82	2
Primary heat up time (EN12897) (mins) 19 22 29 35	
ERP RATING C C C C	





TWIN COIL CYLINDER (VENTED)

Our Twin Coil vented models have all the features and benefits of the Indirect models but come with an additional coil for use with a solar heat source, or an additional boiler. The models feature large dedicated renewable volumes, making them suitable for use with solar thermal systems in line with the recommendations in the Domestic Building Services Compliance Guide.

The renewable coil (the lower of the two coils) has a large surface area to maximise the use of available low grade heat from a renewable resource. The immersion heater and cylinder thermostats for both coils are supplied. Twin Coil models (200 litres & above) feature a dedicated 22mm connection for use with a secondary return (pumped circulation).

TWIN C	OIL (VEN	ITED)	
	TW200V	TW240V	TW290V
DIMENSIONS			
(A) Height (mm)	1380	1655	1940
(B) Secondary return connection (mm)	1080	1355	1640
(C) Primary coil upper connection (mm)	988	1088	1231
(D) Primary coil lower connection (mm)	705	806	948
(E) Renewable coil upper connection (mm)	605	605	605
(F) Cold inlet connection (mm)	228	228	228
(G) Renewable coil lower connection (mm)	228	228	228
OPERATING DATA			
Cold water capacity (litres)	194	233	281
Weight when full (kg)	240	290	350
Standing heat loss (kWh/24h)	1.97	2.12	2.26
Dedicated renewable volume (litres)	97	117	141
PERFORMANCE			
Primary coil rating @ 15L/ min (kW)	14.35	14,28	14.64
Renewable coil rating @ 15L/min (kW)	16.62	16.47	15.82
Primary heat up time (EN12897) (mins)	22	29	35
ERP RATING	С	С	С







22

TRIPLE COIL CYLINDER (VENTED)

OurTriple Coil vented cylinders feature a total of three 22mm heat exchanger coils. This flexibility means that, for example, the cylinder might be heated by a solar thermal system via the renewable coil, a wood pellet boiler supplying the primary coil and a back-up oil or gas boiler on the tertiary coil.



DIRECT CYLINDER (UNVENTED)

The electrically heated Direct cylinders are designed for instances where the use of fossil fuels is impractical or unavailable. Featuring two immersion heaters, one heating the entire cylinder volume and the other heating a boost volume at the top, the cylinders are able to make use of the Economy 7 tariff in order to minimise the cost of hot water.

If used in this way, the cylinder should be sized to provide the complete anticipated daily hot water use, thereby reducing the use of the boost element which runs on the more expensive standard tariff.

TRIPLE COI		
	TR240V	TR290V
DIMENSIONS		
(A) Height (mm)	1655	1940
(B) Secondary return connection (mm)	1355	1640
(C) Tertiary coil upper connection (mm)	1290	1573
(D) Tertiary coil lower connection (mm)	1008	1195
(E) Primary coil upper connection (mm)	988	1145
(F) Primary coil lower connection (mm)	705	768
(G) Renewable coil upper connection (mm)	605	605
(H) Cold inlet connection (mm)	228	228
(I) Renewable coil lower connection (mm)	228	228
OPERATING DATA		
Cold water capacity (litres)	233	281
Weight when full (kg)	290	350
Standing heat loss (kWh/24h)	2.16	2.30
Dedicated renewable volume (litres)	96	107
PERFORMANCE		
Primary coil rating @ 15L/min (kW)	14.36	17.68
Renewable coil rating @ 15L/min (kW)	16.42	15.43
Tertiary coil rating @ 15L/min (kW)	14.44	18.67
Primary heat up time (EN12897) (mins)	33	34
ERP RATING	С	С

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	DIRI		DER			
	DI110UV	DI140UV	DI170UV	DI200UV	DI240UV	DI290UV
DIMENSIONS						
(A) Height (mm)	830	1005	1205	1380	1655	1940
(B) Secondary return connection (mm)	-	-	-	1080	1355	1640
(C) Upper immersion (mm)	393	481	581	668	806	948
(D) Lower immersion (mm)	239	239	239	239	239	239
(E) Cold inlet connection (mm)	228	228	228	228	228	228
OPERATING DATA						
Rated volume (litres)	107	136	165	194	233	281
Weight when full (kg)	140	180	210	240	290	350
Standing heat loss (kWh/24h)	1.43	1.41	1.68	1.78	2.08	2.15
PERFORMANCE						
Heat up time by lower immersion (mins)	121	154	198	237	287	345





WARMFLOW Neto BUFFER TANK

Warmflow Nero Buffer Tanks are made from high-quality, duplex stainless steel and are of crevice-free construction maximising product durability. Floor-standing, and available in both 110 litre and 200 litre capacities, the Nero Buffer Tank is the perfect solution for any installation scenario where increased thermal capacity is required.

They are suitable for heating systems incorporating all manner of heat sources, including ground and air source heat pumps, biomass boilers, as well as liquid-fuelled or gas-fired appliances. High insulation levels reduce product heat loss, offering enhanced thermal efficiency, reduced heating system cycling, and providing consistent, demand-oriented heating system performance.



BUFFER TANK				
	BT110	BT200		
DIMENSIONS				
(A) Height (mm)	830	1380		
(B) Flow Connections (mm)	530	1080		
(C) Thermostat Pocket (mm)	393	668		
(D) Return Connections (mm)	257	257		
OPERATING DATA				
Rated volume (litres)	107	194		
Weight when full (kg)	140	240		
Standing heat loss (kWh/24h)	1.43	1.78		







RENEWABLE ENERGY

High-efficiency, low emission appliances with a range of outputs to suit any installation.

AIR SOURCE HEAT PUMPS GROUND SOURCE HEAT PUMPS BIOMASS WOOD PELLET BOILER WARMFLOW HEAT PUMP CYLINDERS









ENHANCED VAPOUR INJECTION (EVI) TECHNOLOGY Extends the operating envelope of the unit.



ELECTRONIC CONTROLLED EXPANSION VALVES

Optimising system efficiency by allowing the heat pump to run at a range of flow temperatures and capacities.



HIGH FLOW HEAT EXCHANGERS WITH LARGE SURFACE AREA

Maximising the heat supplied to the property whilst maintaining high flow rates for efficient operation.



LOW CURRENT

Designed to run from a standard single-phase domestic electricity supply.



INSTALLER FRIENDLY

Includes a number of installation friendly features as standard which will help facilitate a smooth installation.



WARMLINK APP CONTROL

Remote control & diagnostic capability through the cloud based app.

TECHNICAL SPECIFICATION AND PERFORMANCE







AS02–R32

AS01-R32





915



AS03-R32



1315

SPECIFICATIONS

PRODUCT DA	TA	AS01-R32	AS02-R32	AS03-R32	
	Width	1002	955	1000	
Dimensions (mm)	Depth	490	460	440	
()	Height	805	915	1315	
Weight (kg)		90	108	157	
Electrical Supply		230V Single Phase@50Hz	230V Single Phase@50Hz	230V Single Phase@50H	
Maximum Currer	nt (Amps)	13	22	33	
Nominal Sound L	evel (dBA)*	37-54	42-55	44-58	
	kW @ A7W35	8.3	12.5	20.5	
	COP @ A7W35	4.58	4.35	4.67	
Performance (Max)	kW @ A7W55	6.6	10.1	15.4	
	COP @ A7W55	2.68	2.67	2.51	
	kW @ A-7W35	5.6	8.5	13.8	
	COP @ A-7W35	3.22	2.88	3.48	
	SCOP @ W35	4.55	4.02	4.06	
	SCOP @W55	3.20	3.23	3.23	
	ErP Efficiency Class (35°C / 55°C)^	A+++ / A++	A++ / A++	A++ / A++	
Operating Temp	Ambient Air, min/max	-25/43	-25/52	-25/52	
(°C)	Heating, min/max	20/60	20/60	20/60	
Flow Rates (l/m)	Heating, min/max	10/20	16/30	28/60	
Defiierent	Туре	R32	R32	R32	
Refrigerant	Charge (kg)	1.30	1.70	2.00	
Connections	Heating Flow & Return	1" female BSP	1" female BSP	1" female BSP	





Hot Water Cylinder

WARMFLOW HEAT PUMP CYLINDERS

The Warmflow cylinder range has been designed to satisfy the needs of even the most demanding household.

The innovative design of our range of heat pump cylinders ensures that you benefit from the largest hot water volumes, shortest heat-up times and lowest possible heat losses.

Available in four sizes from 170 to 290 litres to suit the vast majority of heat pump installations. Thanks to their large surface area and high performance plate heat exchanger, the heat pump models boast impressive heat-up times - the 170 litre model taking just 25 minutes to reach 60°C from cold.

Our Heat pump models, like the rest of the unvented range, are designed to be fed directly from the mains water supply via the inlet group supplied, which is capable of receiving incoming water at pressures up to a maximum of 16 bar.



HEAT PUMP HP200UV



HEAT PUMP CYLINDER						
	HP170UV	HP200UV	HP240UV	HP290UV		
DIMENSIONS						
(A) Height	1205	1380	1655	1940		
(B) Secondary return connection (mm)	905	1080	1355	1640		
(C) Plate Heat Exchanger upper connection (mm)	569	744	1019	1304		
(D) Plate Heat Exchanger lower connection (mm)	397	572	847	1132		
(E) Cold Inlet connection (mm)	228	228	228	228		
OPERATING DATA						
Cold water capacity (litres)	165	194	233	281		
Weight when full (kg)	210	240	290	350		
V40 Hot water volume (litres)	229	259	312	401		
Standing heat loss (kWh/24h)	1.68	1.78	2.08	2.15		
PERFORMANCE						
Primary coil rating @ 15 l/min (kW)	17.08	25.85	29.38	21.92		
Heat up time by primary coil (mins)	25	21	22	34		
ERP RATING	С	С	С	С		





Zeno

A RANGE OF PACKAGES TO SUIT ALL YOUR INSTALLATION REQUIREMENTS

All of our Zeno air source heat pumps come with a basic kit which comprises of a touch screen, intelligent controller, factory fitted Grundfos circulating pump, Y strainer, flexi hose kit, isolating ball valve and 2 x 1" male to female elbows.

WARMFLOW

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In addition, we offer a range of custom packs which include our very own Warmflow branded heat pump cylinder offering further value and a 1 stop shop to ensure your installation is as easy as possible. All the packs have been designed to enhance value for our customers and include only the finest quality, market leading branded goods.

Our range of custom packs are detailed in the tables:

ZENO INVERTER DRIVEN AIR SOURCE HEAT PUMP MODELS

Includes controller, pump, heated drip tray, 1" xY strainer, 1 x flexi hose kit, 2 x 1" isolating ball valve, 2 x 1" Male to Female Elbows

Code	Description
AS01-R32	Zeno 8kW ASHP
AS02-R32	Zeno 12kW ASHP
AS03-R32	Zeno 20kW ASHP

PACK 2

ZENO INVERTER DRIVEN AIR SOURCE HEAT PUMP & 240ltr CYLINDER

Includes 240ltr heat pump cylinder, Full flow 3 port valve body & actuator, Adey Magnaclean 28mm, Ethylene Glycol conc 25l drum, 24ltr round expansion vessel c/w bracket, 50ltr insulated buffer tank , Flexi foot support (x 2)

Code	Description		
AS01 K2	Zeno AS01-R32 with Pack 2		
AS02 K2	Zeno AS02-R32 with Pack 2		
AS03 K2	Zeno AS03-R32 with Pack 2		

PACK 4

ZENO INVERTER DRIVEN AIR SOURCE HEAT PUMP & 170ltr CYLINDER

Includes 170ltr heat pump cylinder, Full flow 3 port valve body & actuator, Adey Magnaclean 28mm, Ethylene Glycol conc 25l drum, 24ltr round expansion vessel c/w bracket, 50ltr insulated buffer tank , Flexi foot support (x 2)

Code	Description		
AS01 K4	Zeno AS01-R32 with Pack 4		
AS02 K4	Zeno AS02-R32 with Pack 4		
AS03 K4	Zeno AS03-R32 with Pack 4		



PACK 1

ZENO INVERTER DRIVEN AIR SOURCE HEAT PUMP

Includes Adey Magnaclean 1"BSP, Ethylene Glycol conc 25l drum, 24ltr round expansion vessel c/w bracket, 50ltr insulated buffer tank , Flexi foot support (x 2)

Code	Description		
AS01 K1	Zeno AS01-R32 with Pack 1		
AS02 K1	Zeno AS02-R32 with Pack 1		
AS03 K1	Zeno AS03-R32 with Pack 1		

PACK 3

ZENO INVERTER DRIVEN AIR SOURCE HEAT PUMP & 290ltr CYLINDER

Includes 290ltr heat pump cylinder, Full flow 3 port valve body & actuator, Adey Magnaclean 28mm, Ethylene Glycol conc 25l drum, 24ltr round expansion vessel c/w bracket, 50ltr insulated buffer tank , Flexi foot support (x 2)

Code	Description		
AS01 K3	Zeno AS01-R32 with Pack 3		
AS02 K3	Zeno AS02-R32 with Pack 3		
AS03 K3	Zeno AS03-R32 with Pack 3		

PACK 5

ZENO INVERTER DRIVEN AIR SOURCE HEAT PUMP & 200ltr CYLINDER

Includes 200ltr heat pump cylinder, Full flow 3 port valve body & actuator, Adey Magnaclean 28mm, Ethylene Glycol conc 25l drum, 24ltr round expansion vessel c/w bracket, 50ltr insulated buffer tank , Flexi foot support (x 2)

Code	Description		
AS01 K5	Zeno AS01-R32 with Pack 5		
AS02 K5	Zeno AS02-R32 with Pack 5		
AS03 K5	Zeno AS03-R32 with Pack 5		

WARMFLOW

WarmLink is Warmflow's cloud based technology which provides effortless, easy to use remote control technology for homeowners and engineers. WarmLink allows users to control and monitor their Warmflow Zeno air source heat pump remotely or from the comfort of their sofa.

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Enter Password

3

Enter Email

WarmLink is easy to use and offers a range of features including:



APP CONTROL

Fully control your appliance via your smartphone, tablet or PC.



ERROR CODES In the unlikely event of a fault, your engineer will be able to remotely review error codes allowing for more efficient diagnosis and speedy response

🧭 WarmLink

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Forgot Password?



EASY CONTROL

Easy control of the heating and hot water for your appliance from anywhere in the world to ensure maximum comfort in your home



The WarmLink user interface is now included as standard with all Warmflow Zeno air source heat pumps ensuring the smooth and efficient running of your appliance for many years to come. Setting up WarmLink access on your smartphone, tablet or electronic device couldn't be easier with a simple to use app available on google play or apple app store. Simply download the app, connect your device and start enjoying the benefits of remote control access to your Zeno air source heat pump.

All Warmflow Zeno air source heat pumps come with a communication module with built in SIM card which automatically connects to the cloud when the heat pump is activated. Simply scan the barcode using the WarmLink app to connect to your heat pump.



	🕜 WarmLink	
	Enter Email	
₿	Enter Password	\odot
	Forgot Pas	sword?
	Login	

Н	А	F	D	R	Ρ	G	0
H05	Cooling	g Mode	9				NO >
H07	Dry Co	ntact				Ma	ster >
H18	Electric	Heate	er Ener	gy Stag	ge	Sta	ge3 >
H20	3-way	Valve F	Polarity	r -	Ho	t Water	ON >
H22	Silence	Mode					YES >
H25	Air Cor	dition	er Tem	pt. Cho	bice	outlet W	ater >
H32	Heating switchi	g and h ng tim	not wat e	er forc	ed	120	Min >
H36	Weathe	er Com	pensa	tion			NO >





GROUND SOURCE HEAT PUMPS

What is a Ground source heat pump (GSHP)?

Ground source heat pumps (GSHPs) use a loop of pipe, called a ground loop, which is buried in your garden to extract heat from the ground. Heat from the ground is absorbed into the fluid and then passes through a heat exchanger into the heat pump which then transfers heat into your radiators or underfloor system. The length of the ground loop depends on the size of your home and the amount of heat your home requires to remain warm and cosy during the long winter months.

Why Warmflow Zeno?



SINGLE PHASE ELECTRICITY SUPPLY UP TO 18kW

Designed to run from a standard single-phase domestic electricity supply.



OUIET OPERATION Sound level as low as 47db (A).



VARIABLE SPEED-INVERTER DRIVEN COPELAND COMPRESSOR Low noise, high efficiency Copeland compressor; the heart of the system.



USER-FRIENDLY INTERFACE

Powerful programmer with unique features to assist the installation, operation and servicing.

VARIABLE SPEED, HIGH EFFICIENCY PUMPS

Fully integrated, variable speed, high efficiency pump for the heating & brine circuits modulates flow to match heating demand and overcome hydraulic resistance whilst maintaining peak efficiency.



INSTALLATION ACCESSORIES AS STANDARD Includes flexible hoses, filters and 3 port diverting valve.

ELECTRONIC CONTROLLED EXPANSION VALVE



Optimising system efficiency by allowing the heat pump to run at a range of flow temperatures and capacities.



HIGH FLOW HEAT EXCHANGERS WITH LARGE SURFACE AREA

Maximising the heat supplied to the property whilst maintaining high flow rates for efficient operation.



HIGH TEMPERATURE OUTPUT





SPECIFICATIONS

PRODUCT DA	TA	G\$03	
-	Width	590	
Dimensions (mm)	Depth	660	
. ,	Height	890	
Weight (kg)		130	
Electrical Supply		230V Single Phase@50Hz	
Maximum Currer	nt (Amps)	32	
Nominal Sound L	evel (dBA)*	47	
Ambient tempero	iture min/max (°C)	5/40	
Ambient humidit	J (%)	80	
	COP @ B0W35 ^	4.87 @ 8.53kW	
	COP @ B0W55 ^	2.99 @ 9.05kW	
Performance	Heat Output Range	4.5-18kW	
	ErP Efficiency Class (35°C / 55°C)^	A+++ / A+++	
Operating Temp	Brine Flow, min/max	-5/15	
(°C)	Heating Flow, min/max	30/60	
	Brine, min/max	20/75	
Flow Rates (l/m)	Heating, min/max	14/60	
D (1)	Brine, min/max	0.5/3.0	
Pressures (bar)	Heating, min/max	0.5/3.0	
	Туре	R410A	
Refrigerant	Charge (kg)	3.10	
Commun. Oth	Туре	RL32 3MAF	
Compressor Oil	Quantity (l)	1.5	
	Brine Flow & Return	1½" female BSP	
Connections	Heating Flow & Return	1¼" female BSP	

*Nominal Sound Levels have been independently tested in accordance with EN 12102. ^COP and Heat Power ratings have been independently tested in accordance with EN 14511.









TRAINING COURSES

Become a Warmflow Connect installer and gain a number of benefits, including free training for both oil and renewables.



Total peace of mind with our product warranties and dedicated customer support team

At Warmflow we're confident about the quality and performance of all our products and we want our customers to be confident too.That's why all Warmflow products come with comprehensive and industry-leading warranties, backed by our own in-house Customer Support Team.

Whatever your need, our dedicated team of Customer Support specialists is on hand to provide expert knowledge before, during and after sales, taking complete care of all your customer support needs and helping you get the most from your Warmflow product. With Warmflow you'll have peace of mind that your heating appliance is in safe hands.

Full details of our product warranties are available at www.warmflow.co.uk.



At Warmflow we offer a range of oil and renewable training course to suit all requirements at our training centres.

For more information please email sales@warmflow.co.uk or call 028 9262 1515

HEAD OFFICE GB OFFICE Telford Lisburn

TRAINING CENTRES

- 1. Lisburn
- 2. Telford
- 3. Exeter
- 4. Hailsham
- 5. Langport
- 6. York
- 7. Cumbria
- 8. Scotland
- 9. Wrexham
- 10. Norwich

SIGN UP TO OUR **INSTALLER SCHEME.** IT'S AS EASY AS 1, 2, 3

WARMFLOW

INNOVATIVE | RELIABLE | EFFICIENT

WARM AIR **HEATING SYSTEMS**

Ideal for:

Garages

Warehouses

Commercial & **Domestic Workshops**



For more information please visit www.warmflow.co.uk contact sales@warmflow.co.uk or call 028 9262 1515

Are you a Warmflow installer, Why not sign up to our Installer Scheme?

The Warmflow Installer Scheme will allow you to register all of your Warmflow products, purchase extended warranties and claim rewards for every purchase you make. Points mean rewards with Warmflow. Sign up online today at the Warmflow Connect platform connect.warmflow.co.uk Email connect@warmflow.co.uk or contact your Warmflow sales representative.

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Forgot password?

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Don't have an account? Register here

Email address

Email

Password

Password



WARM AIR HEATERS		
WAH11	WAH23	WAH56
44kW	87.9kW	175.8kW